



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: David L. Carnahan  
Serial No.: 10/623,678  
Filing Date: 07/21/2003  
Title: APPARATUS AND METHOD FOR NANOSCALE PATTERN  
GENERATION  
Group Art Unit: 2818  
Examiner: Renee R. Berry  
Attorney's Docket No.: NANO-6

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED  
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July 19, 2005

(DATE OF DEPOSIT)

Margaret M. Slezak

(NAME OF ATTORNEY)

July 19, 2005

(DATE OF SIGNATURE)

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PO Box 1450  
Alexandria, VA 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 CFR 1.56, 1.97 and 1.98, Applicant hereby submits information which may be considered material to the examination of this application. This information is listed on the accompanying form.

A copy of document 1, which is listed on the accompanying form, PTO/SB/08A (substitute for Form PTO-1449) (two pages), has not been submitted since submission of copies of U.S. patents and U.S. patent applications is no longer required under 37 CFR 1.98.

Copies of 2-6, which are also listed on PTO/SB/08A (substitute for Form PTO-1449) (two pages), are enclosed herewith.

Applicant respectfully requests that these documents be fully considered by the U.S. Patent and Trademark Office during the examination of this application and printed on any patent which may issue on this application. Applicant also respectfully requests that a copy of PTO/SB/08A (substitute for Form PTO-1449) (two pages), submitted herewith, as considered and initialed by the Examiner, be returned to the undersigned with the next communication.

It is believed that this disclosure complies with the requirements of 37 CFR 1.56, 1.97 and 1.98. If for any reason the Examiner considers otherwise, it is respectfully

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requested that the undersigned be contacted by the Examiner by telephone in order that any deficiencies may be expeditiously remedied.

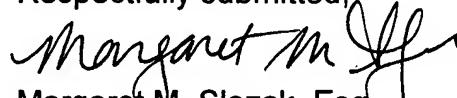
The enclosed documents may have markings thereon. Applicants are not presently aware of the source of those markings, and no significance is meant to be attached thereto.

*A check in the amount of One Hundred Eighty Dollars (\$180.00) payable to the Commissioner of Patents and Trademarks also is enclosed herewith to cover the fee due in connection with this submission.*

Please charge any additional fees due in connection with this submission, or credit any overpayment, to Deposit Account No. 16-0221. A duplicate copy of this submission is enclosed for the convenience of the Examiner.

Thank you.

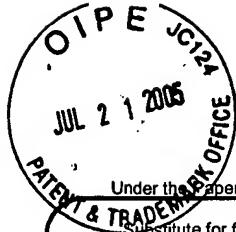
Respectfully submitted,

 7/11/2005

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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

Sheet 1 of 2

**Complete if Known**

Application Number	10/623,678
Filing Date	07/21/2003
First Named Inventor	David L. Carnahan
Art Unit	2818
Examiner Name	Renee Berry

Attorney Docket Number NANO-6

**U. S. PATENT DOCUMENTS**

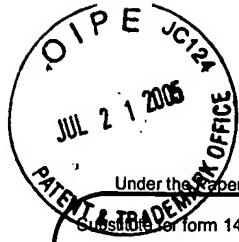
## FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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				<i>Complete If Known</i>	
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				Art Unit	2818
				Examiner Name	Renee Berry
Sheet	2	of	2	Attorney Docket Number	NANO-6

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	2	DIMITROV, ANTONY S., et al., Continuous Convective Assembling of Fine Particles into Two-Dimensional Arrays on Solid Surfaces, Langmuir, 1996, 1303-1311, 12.	
	3	MICHELETTI, R., et al., A Simple Method for the Production of a Two-Dimensional, Ordered Array of Small Latex Particles, Langmuir, 1995, 3333-3336, 11.	
	4	FISCHER, U. Ch., et al., Submicroscopic Pattern Replication with Visible Light, J. Vac. Sci. Technol., Nov./Dec. 1981, 881-885, 19 (4).	
	5	REN, Z.F., et al., Synthesis of Large Arrays of Well-Aligned Carbon Nanotubes on Glass, Science, 6 November 1998, 1105-1107, 282.	
	6	KRALCHEVSKY, PETER, A., et al., Capillary Forces between Colloidal Particles, Langmuir, 1994, 23-36, 10.	

Examiner Signature	Date Considered
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